

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P316663

Luminaire Tested: **GAN-SA9D-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57904 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

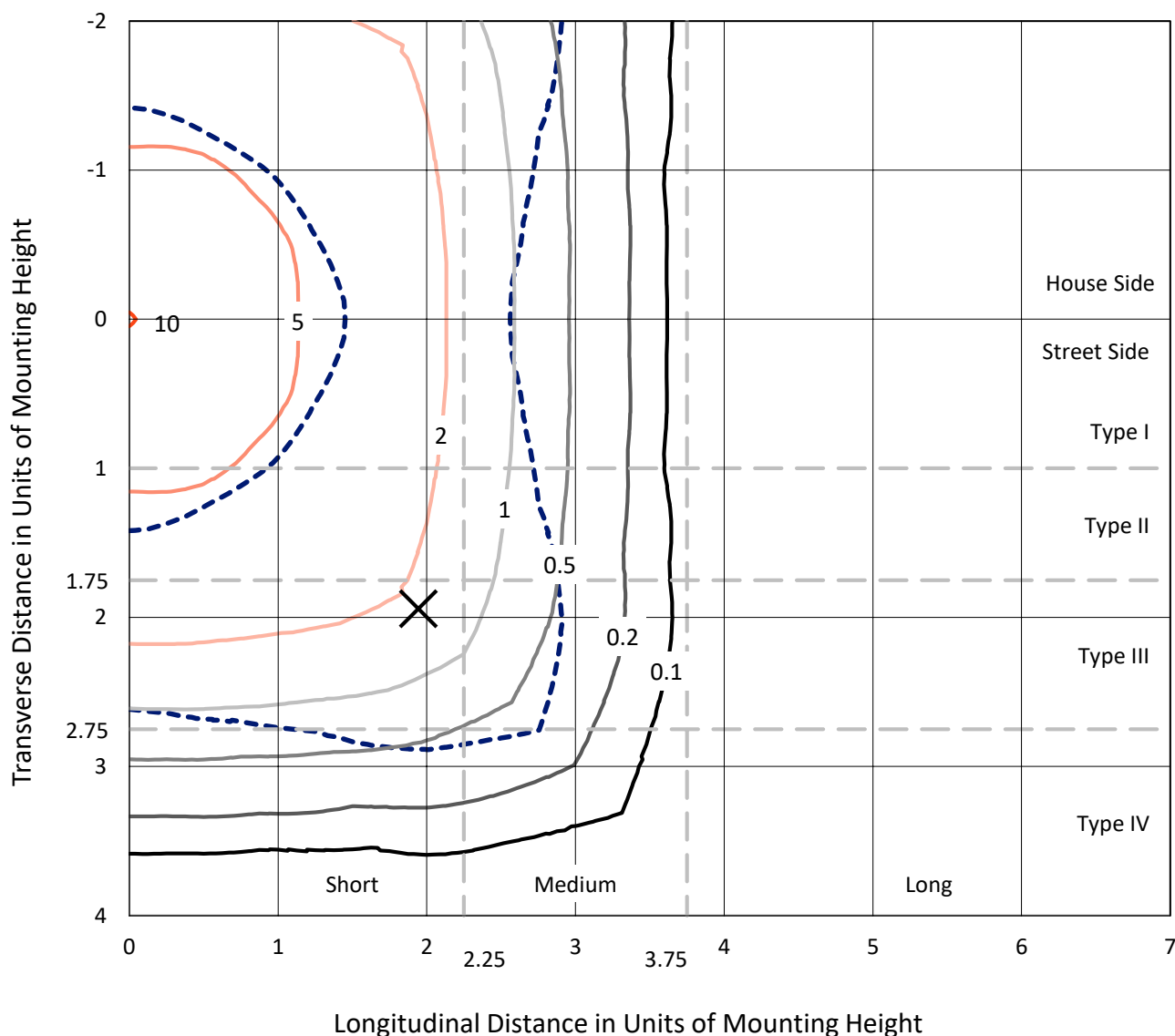
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316663
 CATALOG NUMBER: GAN-SA9D-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

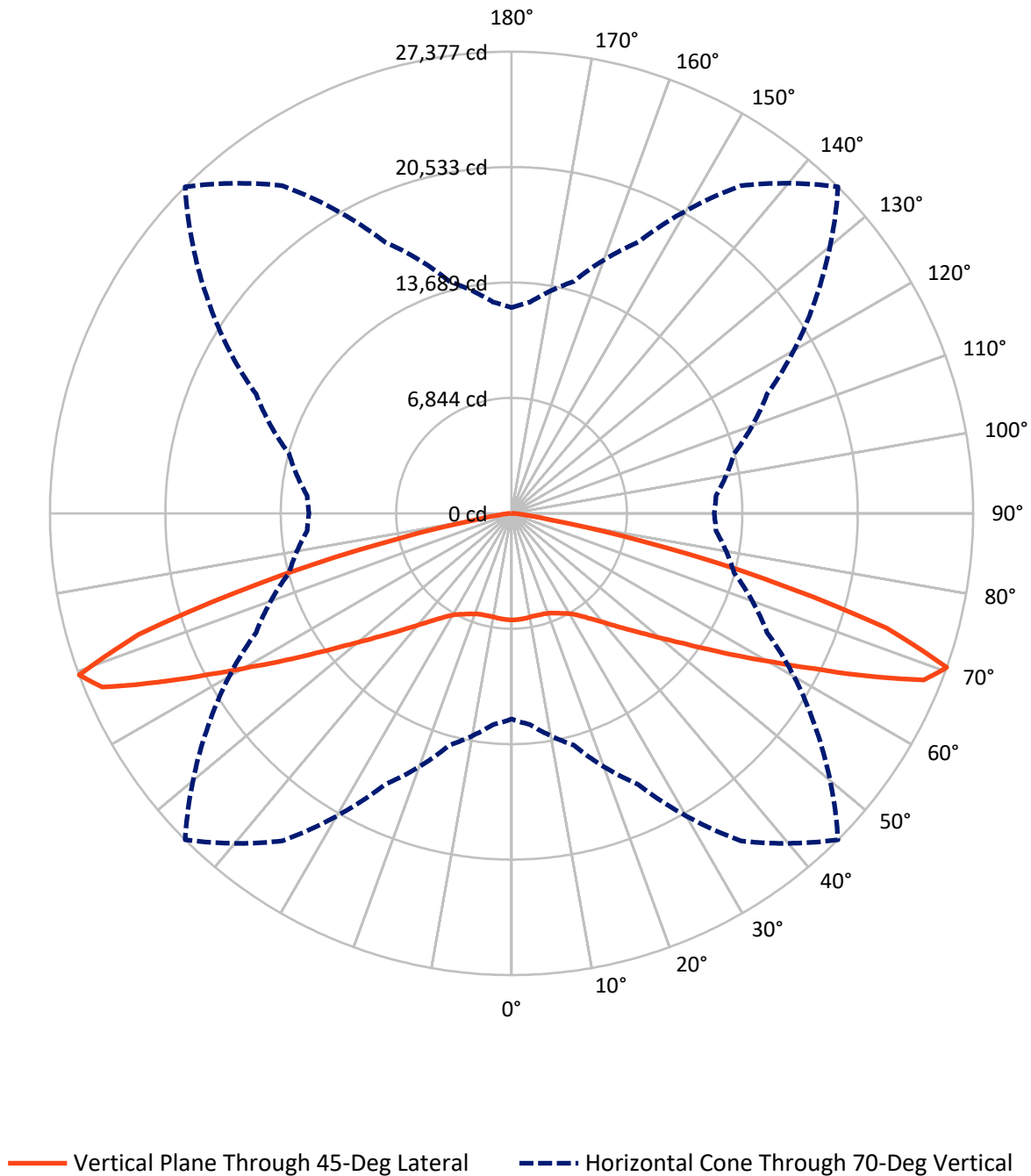
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - N/A

REPORT NUMBER: P316663
CATALOG NUMBER: GAN-SA9D-830-U-5MQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28952.0	0.0	28952.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28952.0	0.0	28952.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	57904.0	0.0	57904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.0	1.0
10°-20°	1758.4	3.0
20°-30°	2993.3	5.2
30°-40°	4747.4	8.2
40°-50°	7725.4	13.3
50°-60°	12737.8	22.0
60°-70°	18699.5	32.3
70°-80°	8268.9	14.3
80°-90°	374.5	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	57904.0	100.0
0°-180°	57904.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316663

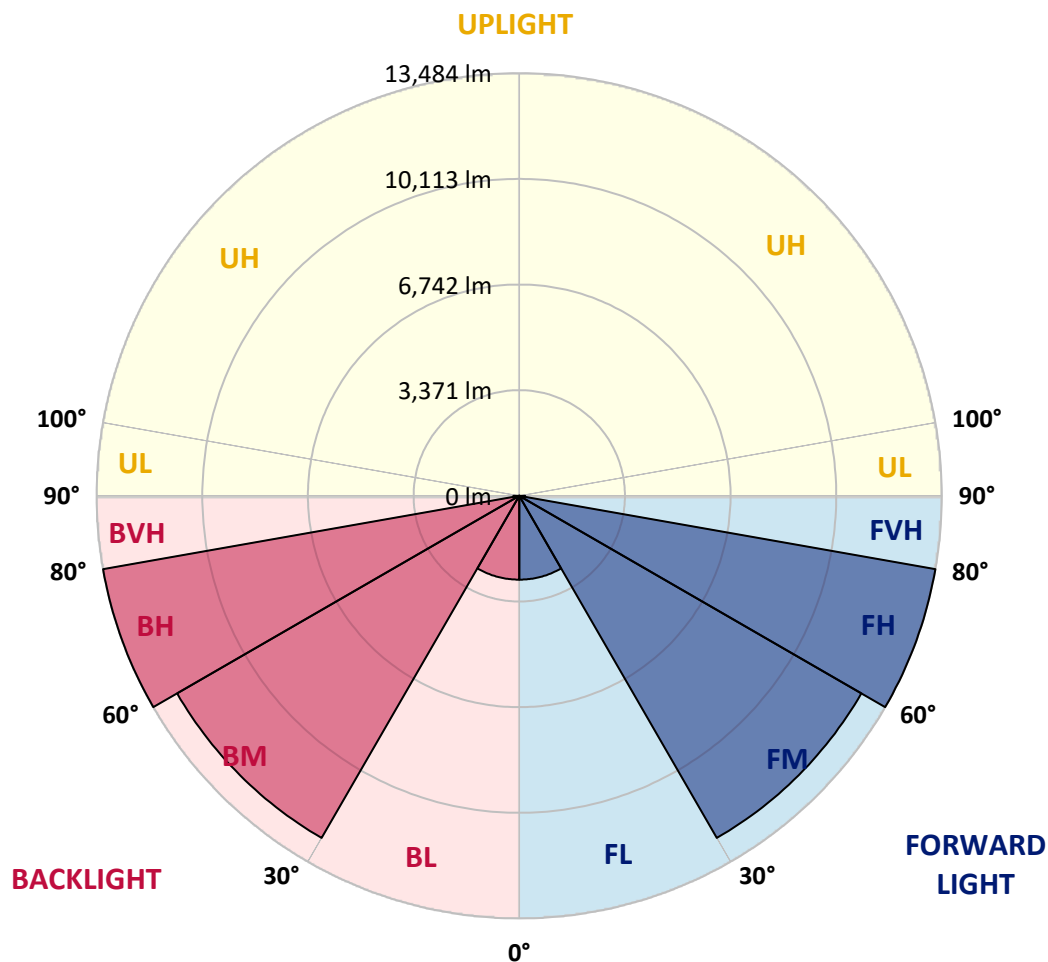
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2675.3	4.6			
FM	(30°-60°)	12605.3	21.8			
FH	(60°-80°)	13484.2	23.3			G5
FVH	(80°-90°)	187.2	0.3			G2/225
BL	(0°-30°)	2675.3	4.6	B4/5000		
BM	(30°-60°)	12605.3	21.8	B5		
BH	(60°-80°)	13484.2	23.3	B5		G5
BVH	(80°-90°)	187.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P316663

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0
2.5°	6314.4	6308.7	6322.1	6320.2	6308.7	6310.6	6310.6	6316.4	6316.4	6312.5	6312.5
5°	6291.4	6287.6	6302.9	6302.9	6291.4	6295.3	6299.1	6304.9	6302.9	6299.1	6297.2
7.5°	6262.7	6260.8	6276.1	6276.1	6268.4	6272.3	6268.4	6270.4	6266.5	6262.7	6256.9
10°	6214.8	6218.6	6232.0	6235.9	6235.9	6237.8	6233.9	6224.4	6218.6	6212.9	6207.1
12.5°	6170.7	6168.8	6188.0	6197.5	6212.9	6230.1	6218.6	6191.8	6180.3	6168.8	6165.0
15°	6142.0	6143.9	6163.0	6180.3	6207.1	6243.5	6230.1	6188.0	6165.0	6151.5	6147.7
17.5°	6136.2	6140.0	6165.0	6195.6	6224.4	6264.6	6256.9	6214.8	6176.5	6151.5	6145.8
20°	6149.6	6151.5	6189.9	6233.9	6283.8	6322.1	6304.9	6258.9	6207.1	6168.8	6159.2
22.5°	6174.5	6182.2	6230.1	6299.1	6375.8	6427.5	6406.4	6327.9	6247.4	6199.5	6186.0
25°	6253.1	6255.0	6320.2	6414.1	6506.1	6565.5	6540.6	6429.4	6325.9	6272.3	6255.0
27.5°	6416.0	6421.8	6486.9	6596.1	6674.7	6713.0	6697.7	6607.6	6519.5	6462.0	6467.7
30°	6651.7	6659.4	6732.2	6852.9	6900.8	6910.4	6906.6	6864.4	6783.9	6707.3	6713.0
32.5°	6939.2	6943.0	7040.7	7150.0	7188.3	7196.0	7188.3	7150.0	7054.2	6950.7	6956.4
35°	7309.0	7320.5	7414.4	7519.8	7550.5	7565.8	7552.4	7502.6	7402.9	7301.4	7297.5
37.5°	7765.1	7767.0	7864.8	7974.0	8012.3	8016.2	8000.8	7968.3	7843.7	7751.7	7746.0
40°	8294.0	8301.7	8416.7	8533.6	8548.9	8531.7	8552.8	8533.6	8405.2	8299.8	8317.0
42.5°	8937.9	8955.2	9093.2	9208.2	9164.1	9154.5	9167.9	9173.7	9070.2	8941.8	8930.3
45°	9687.2	9702.6	9875.0	9967.0	9938.3	9875.0	9901.9	9947.9	9804.1	9645.1	9660.4
47.5°	10541.9	10580.3	10764.2	10850.5	10779.6	10693.3	10745.1	10814.1	10645.4	10448.0	10438.5
50°	11492.5	11540.4	11785.7	11906.4	11835.5	11676.4	11762.7	11808.7	11565.3	11310.4	11289.3
52.5°	12506.2	12554.1	12862.7	13111.8	13065.8	12818.6	12939.3	12891.4	12611.6	12268.6	12241.8
55°	13654.1	13673.3	14006.7	14409.2	14455.2	14273.1	14265.5	14186.9	13772.9	13376.3	13357.1
57.5°	14834.6	14848.0	15279.2	15754.5	15971.0	15971.0	15756.4	15589.7	15039.7	14579.7	14531.8
60°	16109.0	16156.9	16634.1	17279.9	17785.8	17935.3	17555.9	17101.7	16503.8	15942.3	15886.7
62.5°	17243.5	17299.1	18029.2	18991.2	19803.8	20348.0	19420.5	18680.8	17592.3	16691.6	16586.2
65°	17387.2	17536.7	18600.3	20342.3	22160.9	23247.5	21469.1	19646.6	17663.2	16411.8	16304.5
67.5°	15879.0	16132.0	17569.3	20280.9	24038.9	26371.2	22778.0	19094.7	16390.7	15007.1	14888.3
70°	12201.5	12569.5	14227.1	17739.8	23715.1	27377.2	21957.8	16716.5	13665.6	12176.6	12009.9
72.5°	6693.9	6845.3	8336.2	12147.9	19012.3	23264.7	18314.7	12360.6	9062.5	7374.2	7094.4
75°	2123.3	2177.0	2935.9	4971.1	10754.7	15409.5	11634.3	6067.2	3340.2	2462.5	2433.8
77.5°	942.9	948.6	1061.7	1450.7	3704.3	7807.3	4449.8	1651.9	1138.3	994.6	1027.2
80°	596.0	596.0	657.3	718.6	1008.0	2267.1	1203.5	785.7	670.7	622.8	636.2
82.5°	285.5	316.2	427.4	459.9	553.8	762.7	617.1	513.6	448.4	333.4	310.5
85°	187.8	157.1	270.2	304.7	322.0	366.0	358.4	339.2	293.2	166.7	185.9
87.5°	84.3	80.5	139.9	128.4	120.7	92.0	138.0	170.6	164.8	82.4	82.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)